BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of the work: **Emergency works (Culverts, footpaths and others) - Improvements to drains in main and cross roads of Kodigehalli and surrounding areas in ward No. 8,**

Estimate Cost: 1000000.00

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
1	KSRRB 300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications MORTH chapter 3. Page No. 141 / Item No. 19.1/ PWD SR 2015-16								
	Drain desilting								
	cross roads (total length)	Cum	2	150.00	0.50	0.50	75.00		
	Culvert reconstruction	Cum	1	8.00	1.80	0.60	8.64		
							83.64	83.16	6956.00
	Basic Rate	77.00							
	Area Weightage @8%	6.16							
	Total	83.16							
2	Removing B.S Slab of Drain and stacking Page No. 25 / Item No. 5.32 / PWD SR 2015-16								
	cross roads (total length)	Sqm	2	150.00	1.65		495.00		
							495.00	63.72	31541.00
	Basic Rate	59.00							
	Area Weightage @ 8%	4.72							
	Total	63.72							
3	Refixing stone slabs of drains and pointing in C.M (1:3) Page No. 25 / Item No. 5.33 / PWD SR 2015-16								
	80% of the quantity vide item No. 1	Sqm	Qty Vide Item No. 1				396.00	78.84	31221.00
	Basic Rate	73.00							
	Area Weightage @ 8%	5.84							
	Total	78.84							
4	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete. (10.0 cms thick) (P.No.28, I.No.5.31.2 of PW,P&IWTD SR 2015-16)								
	Balance qty vide item No. 2 & 3	sqm					99.00	794.88	78693.0
	Basic Rate Rs.	736.00							
	Add 8% A.W Rs.	58.88							
	Total Rate Rs.	794.88							
5	KSRB 4-1.3 : Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180 kgs with 40mm and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregares @ 0.57 cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2. No. 12/ Item No. 4.3/ PWD SR 2015-16								
	for culvert drain bed	Cum	1	8.00	1.80	0.150	2.16		
							2.16	5070.60	10952.00
	Basic Rate	4695.00							
	Area Weightage @8%	375.60							
	Total	5070.60							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
6	KSRB 5.4-3: Providing and constructing granite / trap / basalt size stone masonry in superstructure with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5-1.13 Page No. 23 / Item No. 5.12 / PWD SR 2015-16								
	for side walls	Cum	2	8.00	0.45	0.90	6.48		
		cum					6.48	5159.16	33431.00
	Basic Rate	4777.00							
	Area Weightage @8%	382.16							
	Total	5159.16							
7	KSRB 15.1.4: Providing ruled pointing to coursed stone masonry with cement mortar 1:4, 20 mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications cement mortar 1:4. Page No. 112 / Item No. 15.4 / PWD SR 2015-16								
	for side walls	Sqm	4	8.00		0.90	28.80		
							28.80	97.20	2799.00
	Basic Rate	90.00							
	Area Weightage @ 8%	7.20							
	Total	97.20							
8	KSRB 4-1.6 : Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240 kgs with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum, machine mixed, concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications, specification. No. KBS 4.1,4.2. No. 12/ Item No. 4.6/ PWD SR 2015-16								
	For laying over chipped cc drain								
	coping	Cum	2	8.00	0.45	0.100	0.72		
	ramps	Cum	2	8.00	0.30	0.150	0.72		
							1.44	5490.72	7907.00
	Basic Rate	5084.00							
	Area Weightage @8%	406.72							
	Total	5490.72							
9	KSRB 4.2.2 : Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320 kgs, with 20mm and down size graded granite metal, coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum with superplastisiser @ 3lts confirming to IS 9103-1999 reaffirmed-2008 machine mixed, concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, walls (any thickness) including attached plasters, column, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc, including cost of all materials, labour, HOM of machinery, curing, complete as per specifications. Specification No. KBS 4.1,4.6, No. 13/ Item No. 4.11/ PWD SR 2015-16								
	slab	Cum	1	8.00	1.70	0.23	3.13		
							3.13	6198.12	19388.00
	Basic Rate	5739.00							
	Area Weightage @ 8%	459.12							
	Total	6198.12							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
10	KSRB 4.9.1: Providing mild steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications.Specification No. KBS 4.6.3 Page No. 17 / Item No. 4.45 / PWD SR 2015-16								
	steel @ 90 Kg / Cum	Qtl	0.90	3.13			2.82	6488.64	18267.00
	Basic Rate	6008.00							
	Area Weightage @ 8%	480.64							
	Total	6488.64							
11	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 Page No. 15 / Item No. 4.31/ PWD SR 2015-16								
	bottom	Sqm	1	8.00	0.60		4.80		
	alround sides	Sqm	1	19.40	0.23		4.46		
		Sqm					9.26	306.72	2841.00
	Basic Rate	284.00							
	Area Weightage @ 8%	22.72							
	Total	306.72							
12	Providing and constructing precast concrete solid blocks with compressive strength not less than 3.5 N/sqmm with CM 1:4 masonry with solid concrete blocks of size 40x20x20 cm conforming to IS 2185 / 1965 in superstructure including cost of all materilas, labour charges, scaffolding, curing complete as per specifications. (PWDSR 2015-16, I. 5.27, P. 25)								
						av.			
	over stone burnt slabs	sqm	2	150.00		0.400	120.00		
							120.00	1018.44	122213.00
	Basic Rate	943.00							
	Area Weightage @8%	75.44							
	Total	1018.44							
13	Providing and laying in position reinforced cement concrete M20 mix with stone aggregates 20mm and downsize for slab (including steel reinforcement) including centering and shuttering, maching mixed, concrete laid in layers not exceeding 15cm thick well compacted cost of all materials, labour, HOM of machineries, curing complete as per specifications. (Approved data rate enclosed)								
	cross roads	sqm	2	150.0	0.90		270.00		
		sqm					270.00	1600.0	432000.00
14	KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface:- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803 (Page No. 178, Item No. 24.15 SR 2014-15)								
	cross roads	sqm	22	175.00	0.10		385.00		
							385.00	473.04	182120.00
	Basic Rate Rs.	438.00							
	Add 8% A.W Rs.	35.04							
	Total Rate Rs.	473.04							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
15	Lead for Disposal of Debris shall be payable at carriage rates by Mechanical means inlcuding loading and unloading. From 0.00 to 2.00 Km (Page No.133 of PWDSR 2015-16)								
			Vide Item No. 1				71.09	78.97	5614.00
	Average weight of earth 1.28 tonne / kg for 2x1.28x2.00=5.12	5.12							
	Add loading and unloading charges Vide item no.17.1 P.no.133	68.00							
		73.12							
	Area Weightage @ 8%	5.85							
	Total	78.97							
16	Sub Total								985943.00
17	For Third Part QC inspection Charges @ 1% of Estimate Cost								9859.00
18	Miscellaneous and other Charges	L/S							4198.00
								Total	1000000.00
	(Rs. Ten Lakhs Only)								

CERTIFICATE:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR of 2015-16
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 8
BBMP

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP

Executive Engineer
Byatarayanapura Division
BBMP
9/12/15

ADMINISTRATIVE APPROVAL
Accorded For Rs. Ten lakhs only
Head of A/c. P-1771
Div. Ref. No. 180/15-16 Date 14.12.15
AE
EE(B.T.P)
14/12

TECHNICAL SANCTION
Accorded For Rs. Ten lakhs only
Head of A/c. P-1771.
Div. Ref. No. 189/15-16 Date 14.12.15
AE
EE
14/12